

Amendments To the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (currently amended): A fax communication system for communicating fax
2 information, in the form of packets arranged in frames, between a first fax machine having
3 error correction capability and a second fax machine, the first and second fax machines
4 being coupled to communicate with one another across a packet switching network,
5 comprising:

6 A network device coupled to receive fax information from the first fax machine, said
7 network device including an accumulation block for accumulating a portion of the fax
8 information [and] in the form of at least one frame for stalling the second fax machine while
9 accumulating said portion until said portion is determined to be free of errors using cyclic
10 redundancy code (CRC) error checking and correction, said portion being sent to the second
11 fax machine free of errors across the packet switching network to the second fax machine.

1 Claim 2 (original): A system as recited in claim 1 wherein the fax information is
2 transmitted between the first fax machine and the second fax machine in real-time.

1 Claim 3 (original): A system as recited in claim 1 wherein the stalling signal is in the
2 form of a fax cover page.

1 Claim 4 (original): A system as recited in claim 1 wherein the stalling signal is a
2 nonfunctional command.

1 Claim 5 (original): A system as recited in claim 1 wherein the stalling signal is invalid
2 data.

1 Claim 6 (cancel).

1 Claim 7 (currently amended): A system as recited in claim 1 wherein the fax information
2 includes fax pages with each page comprising one or more blocks having one or more

3 frames and further wherein said network device for accumulating one or more frames of a
4 block, within the accumulation block, as said accumulated portion of fax information.

1 Claim 8 (original): A system as recited in claim 1 wherein the network device is a router.

1 Claim 9 (original): A system as recited in claim 1 wherein the network device further for
2 detecting errors in the accumulated portion of the fax information, for retransmitting said
3 accumulated portion back to the first fax machine, for receiving said accumulated portion,
4 error-free, and for transmitting said error-free portion through the packet switching network
5 to the second fax machine thereby minimizing retransmissions of said portion or any sub-
6 portion thereof of said fax information through the packet switching network to avoid an
7 avalanche effect.

1 Claim 10 (original): A system as recited in claim 1 wherein said network device further
2 includes a digital signal processor for modulating/demodulating the fax information.

1 Claim 11 (original): A system as recited in claim 10 wherein said network device further
2 includes a central processing unit, coupled to the digital signal processor, for accumulating
3 the fax information and for forming from the fax information.

1 Claim 12 (original): A system as recited in claim 11 wherein said network device further
2 includes a memory coupled to the central processing unit for storing the fax information and
3 software means for reading the stored fax information and for transmitting the fax
4 information through the packet switching network.

1 Claim 13 (original): A system as recited in claim 1 wherein said network device is
2 responsive to the fax information received from the first fax machine through an interface
3 defined by the TCP/IP protocol.

1 Claim 14 (original): A system as recited in claim 1 wherein said network device is
2 coupled to the first fax machine through a public switching telephone network.

1 Claim 15 (original): A system as recited in claim 1 wherein said network device is
2 coupled, through the packet switching network, to a receiving network device, coupled to
3 the second fax machine, the receiving network device for transmitting the fax information
4 to the second fax machine and upon detection of errors within the fax information, for
5 receiving a retransmission of the fax information from the second fax machine and
6 repeating retransmissions until the fax information is transmitted, error free, to the second
7 fax machine.

1 Claim 16 (currently amended): A method for transmitting fax information between a
2 first fax machine having error correction capability and a second fax machine, the first and
3 second fax machines being coupled to communicate with one another across a packet
4 switching network, in the form of packets organized into frames, comprising:

5
6 receiving fax information from the first fax machine;

7
8 accumulating at least one frame being a portion of the fax information;

9
10 performing error checking and correction using cyclic redundancy code (CRC) on said
11 at least one frame;

12
13 stalling the second fax machine while accumulating said portion of fax information;
14 and

15 transmitting, to the second fax machine, said accumulated portion of fax information,
16 free of errors, across the packet switching network thereby avoiding re-transmission of
17 said portion or any sub-portions thereof across the packet switching network.

1 Claim 17 (original): A method as recited in claim 16 further including the steps of
2 detecting errors in the accumulated portion of the fax information, retransmitting the
3 accumulated portion back to the first fax machine, receiving said retransmitted portion and
4 transmitting the received retransmitted portion free of errors across the packet switching
5 network.

1 Claim 18 (currently amended): A computer readable medium having stored therein computer
2 readable program code comprising instructions for performing the following steps:

3
4 receiving fax information from the first fax machine;
5
6 accumulating at least one frame being a portion of the fax information;
7
8 performing error checking and correction using cyclic redundancy code (CRC) on said
9 at least one frame;

10
11 stalling the second fax machine while accumulating said portion of fax information;
12 and
13 transmitting, to the second fax machine, said accumulated portion of fax information,
14 free of errors, across the packet switching network thereby avoiding re-transmission of said
15 portion or any sub-portions thereof across the packet switching network.